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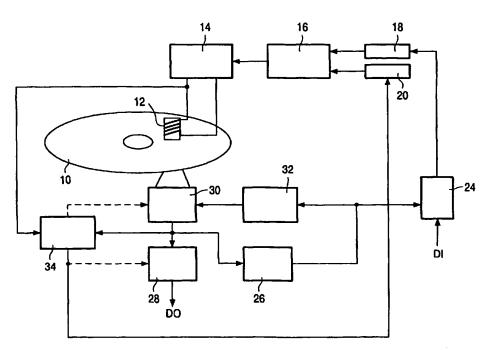
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[Continued on next page]

(54) Title: COPY WINDOW CONTROL FOR DATA DEPENDENT FIELD SWITCHING IN DOMAIN EXPANSION READ-OUT



(57) Abstract: The present invention relates to a method and apparatus for controlling a copy window during read-out of a domain expansion medium (10), wherein a switching time of an external magnetic field is derived from a reading pulse. A shift in the timing of said reading pulse is used for controlling the size of the copy window. Thereby, read-out errors due to changes in the size of the copy window can be prevented.

WO 2003/085660 A3



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B. FIELDS SEARCHED									
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C. DOCUMENTS CONSIDERED TO BE RELEVANT									
Category °	Citation of document, with indication, where appropriate, of the rele	Relevant to daim No.							
A	EP 0 913 818 A (SANYO ELECTRIC CO MAXELL (JP)) 6 May 1999 (1999-05- the whole document	1,16							
A	US 6 058 077 A (MIYAOKA YASUYUKI) 2 May 2000 (2000-05-02) the whole document	1,16							
Α	WO 98 15949 A (SANYO ELECTRIC CO; YAMAGUCHI ATSUSHI (JP); SUMI SAT (JP); TANA) 16 April 1998 (1998-0 the whole document & US 6 538 968 B1 (YAMAGUCHI ATSU AL) 25 March 2003 (2003-03-25)	1,16							
Further documents are listed in the continuation of box C. Patent family members are listed in annex.									
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INTERNATIONAL SEARCH REPORT

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Patent document cited in search report		Publication date	Patent family member(s)		Publication date
EP 0913818	A	06-05-1999	AU EP US WO KR	3459997 A 0913818 A1 6424601 B1 9802877 A1 2000022390 A	09-02-1998 06-05-1999 23-07-2002 22-01-1998 25-04-2000
US 6058077	A	02-05-2000	JP	10092037 A	10-04-1998
WO 9815949	A	16-04-1998	AU DE WO US	4322897 A 19782042 TO 9815949 A1 6538968 B1	16-04-1998